GENERAL SIGNALS, INC. Product Information

GENERAL SIGNALS, INC.

Product Information

Railroad Signal Lenses & Roundels
Highway Crossing Roundels
Parabolic Reflectors
Signal Lamps
Highway Traffic Signal Lenses
Lexan – Plexiglas – Glass

TBR?
12/1/92

GENERAL SIGNALS, INC.

701 N. Weinbach
Suite 610
Evansville, Indiana 47711
U.S.A.
Telephone (812) 473-8740
Fax (812) 473-8748

G.S.I. signal lenses and roundels are available in both glass and high impact plastic, and in an extensive selection of standard colors, diameters, focal lengths and deflections. Both lenses and roundels project a full-face, proper chromaticity indication with high optical efficiency for wayside signals. They meet or exceed all applicable AAR specifications. Optical deflecting roundels for accommodating track curvature and other special conditions are available as well.

GENERAL SIGNALS, INC.

GLENN H. GRANT
Sales & Marketing Manager

Transportation Signal Lenses and Accessories

502 Court Street
Evansville, IN 47708

(812) 421-2103
Fax (812) 421-2115

"Makers of High Impact Res ***idels,***
Parabolic Reflecto

LEXAN — PLEXIGLAS — GLASS

GENERAL SIGNALS, INC.
19 N.W. 4th St., Suite 420
Evansville, Indiana 47708
(812) 422-6070
FAX (812) 425-9904

1988

CONTENTS — Railroad Products

SECTION		PAGE
A	HIGHWAY CROSSING ROUNDELS — FLASHING SIGNALS	
	1. Pedestal Lights	A-1
	2. Cantilever Lights	A-1
	3. Wig-Wag Signals	A-3
	4. Gate Arm Lights	A-3
B	PARABOLIC REFLECTORS	
	1. Glass	B-1
	2. Metal	B-1
	3. Plastic	B-1
C	WAYSIDE SIGNALS — TRAIN ORDER LIGHTS	
	1. New Style Color Lights (outer, inner & protectors)	C-1, 3
	2. Dwarf Color Lights (outer & inner)	C-3, 5
	3. Dwarf Clear Color Lights	C-5
	4. Inverted Color Lights (outer & inner)	C-7
	5. Small Color Lights	C-7,9
	6. Semaphore Color Lights	C-9
	7. Search Lights (outer & inner)	C-11,13
	8. Position Lights (outer & inner)	C-13,15
	9. Switch Lamps	C-15,17
D	RAILWAY SIGNAL LAMPS	D-1
	1. Train and Transit Lamps	D-2
	2. Fluorescent Lamps	D-3

The right is reserved to make changes at any time, without notice, in prices, colors, material and specifications and to discontinue models. Check with GSI for complete information.

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1988

CONTENTS (continued)

SECTION		PAGE
E	LENS PROTECTORS	E-1
F	SPECIALTY LENSES & MISCELLANEOUS PRODUCTS	F-1
	1. Rubber Gaskets	F-3
	2. Custom Services	F-5
G	NEW PRODUCTS AND INFORMATION	
H	PRICE SHEETS & TERMS	
	1. Terms and Restrictions	H-1
	2. Price Information Sheets	H-2
I	HIGHWAY TRAFFIC SIGNAL LENSES	

We have provided a space for your company's part numbers within our catalog. It would be of great help, and allow us to process your orders more efficiently if you could send us your part numbers for our reference.

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A. HIGHWAY CROSSING — FLASHING SIGNALS

1. Pedestal Lights
   a. Back Lights
2. Cantilever Lights
3. Wig-Wag Signals
4. Gate Arm Lights

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HIGHWAY CROSSING ROUNDELS

GSI CATALOG NUMBER	DIA. (In.)		COLOR	DESCRIPTION	WGT. (Lbs)	STD. PKG.	MATERIAL
1. PEDESTAL LIGHTS							
6440-RL	8 3/8		Hwy Xing Red	Convex - 30° Spreadlight - 15° Deflecting Roadside	18	25	Lexan
68-101-RL	8 3/8		Hwy Xing Red	Convex - 20° Spread - w/10° Deflection on Hot Spot Bullseye	18	25	Lexan
68-101-P	8 3/8		Hwy Xing Purple	20° Spread - w/10° Deflection on Hot Spot Bullseye	18	25	Plexiglas
7230-R-L	8 3/8		Hwy Xing Red	Convex - 30° Spreadlight - Roadside	18	25	Lexan
7330-15-R-L	8 3/8		Hwy Xing Red	Convex - 30° Spreadlight - 15° Deflection - Hot Spot Bullseye - Roadside	18	25	Lexan
7812-3015-R-L	12		Hwy Xing Red	Convex - 30° Spreadlight - 15° Deflecting - Roadside	32	25	Lexan
1a. BACK LIGHTS FOR PEDESTAL LIGHTS							
7370-BE-R-L	8 3/8		Hwy Xing Red	Convex - 70° Spreadlight Hot Spot - Backlight	18	25	Lexan
70-8-BE	8 3/8		Hwy Xing Red	Convex - 70° Spreadlight - Hot Spot Smooth Outher Surface - Backlight	18	25	Lexan
7812-70-R-L	12		Hwy Xing Red	Convex- 70° Spreadlight - Backlight	32	25	Lexan
2. CANTILEVER LIGHTS							
7190-32-BERL	8 3/8		Hwy Xing Red	Convex - 20° Spreadlight 32° Deflecting - Cantilever	18	25	Lexan
7812-2032-R-L	12		Hwy Xing Red	Convex - 20° Spreadlight 32° Deflecting - Cantilever	32	25	Lexan

Call us for information about custom lenses — sizes, colors, painted words, and non-glare lenses
We can also locate and identify the replacement lens you need.

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CROSS REFERENCE
Part numbers assigned by signal manufacturers to General Signals lenses

	Modern	Kopp (Glass)	GRS	WABCO US&S Co.	RACO Safetran	WRRS Western Cullen-Hayes	Customer Number	GSI CATALOG NUMBER
1. PEDESTAL LIGHTS								
		RR-4564	P730-113 P73-957	UJ53011	040405-5 040405-26	5323-P		6440-R-L
			P73-956 P30-341	J532135	040405-44 040405-16	5357 5353-P		68-101-R-L
								68-101-P
		RR-4562	P30-268GL P73-934	269557 UJ53001		CC 17-P		7230-R-L
	01510024	RR-4564	P30-270 P30113957	UJ530118 UJ530119	040405-26 040405-42	5323P 5380		7330-15-R-L
	51-01019			J532140	040405-43 040405-2220	5369 5358		7812-3015-R-L
1a. BACK LIGHTS FOR PEDESTAL LIGHTS								
		RR-4569	53142-9 P30-269 P30-277	UJ530117	040405-5130 040405-40	5332-P-L		7370-BE-R-L
		RR-4569		J530117				70-8-BE
	51-01021			J532141	040405-5030	5359		7812-70-R-L
2. CANTILEVER LIGHTS								
		RR-4561	P73-967 P73-271	UJ53360 UJ532119	040405-25 040405-1	5367 5327		7190-32-BERL
	51-01020			J532136	040405-39	5368		7812-2032-R-L

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HIGHWAY CROSSING ROUNDELS

GSI CATALOG NUMBER	DIA. (In.)	FOCUS (in.)	COLOR	DESCRIPTION	WGT. (Lbs)	STD. PKG.	MATERIAL
3. WIG-WAG SIGNALS							
60-1-R	5 3/8	3 1/2	Red	30° Spreadlight - 10° Deflection	8	25	
7180-30-R-L	6 3/8		Hwy Xing Red	30° Spreadlight	20	25	
4. GATE ARM LIGHTS							
SS-4-3805K-2	4 1/8		Hwy Xing Red	Lens Replacement Kit 2-lenses, 2-gaskets, 6 screws		25	
SS-4-9016	4 1/8		Hwy Xing Red	Replacement lens - circular		25	
SS-7-364	7		Hwy Xing Red	Replacement lens - circular		25	
SS-7-394	7		Hwy Xing Red	Complete Gate Arm Light Unit		25	
360-F-R	3 3/16		Hwy Xing Red	Fresnal 360° - without top	16	25	
360-FT-R	3 3/16		Hwy Xing Red	Fresnal 360° - with top	16	25	
SS-4-3805Y	4 1/8		Hwy Xing Red	Complete Gate Arm Light Unit		25	

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CROSS REFERENCE
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Railway Equipment	GRS Plastic	L & W	WABCO US&S Co.	RACO Safetran	Adlake	WRRS Western Cullen-Hayes	Customer Number	GSI CATALOG NUMBER
3. WIG-WAG SIGNALS								
	P73-750 P73-953			042257-9R	232-17-25 232-17-92	1880-21R 5330		60-1-R
			4596088			5335-R		7180-30-R-L
4. GATE ARM LIGHTS								
9298-0300A		1026X	J531485	0759521				SS-4-3804K-2
9298-0300A		1-018	N4591071-3801	759506		1591		SS-4-9016
			N451484-5401			1592		SS-7-364
			N451484-5401			1592		SS-7-394
				71615-1X				360-F-R
				075918		1575-11P		360-FT-R
9298-0300		1030X		075952				SS-4-3805Y

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B. PARABOLIC REFLECTORS

1. Glass
2. Metal
3. Plastic

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PARABOLIC REFLECTORS

GSI CATALOG NUMBER	DIA. (In.)	FOCUS (In.)	COLOR	DESCRIPTION	WGT. (Lbs)	STD. PKG.	MATERIAL
1. GLASS							
R-8-238-NH	8	2 3/8		8" Parabolic Hwy Crossing Reflector - NO HOLE - 2 3/8" FOCUS		25	Glass
R-8-178-NH	8	1 7/8		8" Parabolic Hwy Crossing Reflector - NO HOLE - 1 7/8" FOCUS		5	Glass
R115-238-NH	11 1/2	2 3/8		11 1/2" Parabolic Hwy Crossing Reflector - NO HOLE - 2 3/8" FOCUS		5	Glass
R-12-4-NH	12	4		12" Parabolic Hwy Crossing Reflector - NO HOLE - 4" FOCUS		5	Glass
R12-238-NH	12	2 3/8		12" Parabolic Hwy Crossing Reflector - NO HOLE - 2 3/8" FOCUS		5	Glass
2. METAL							
RM12-2-1H	12	2 3/8		12" Metal Reflector w/1" Hole		5	Metal
RM12-2-25H	12	2 3/8		12" Metal Reflector w/ /4" Hole		5	Metal
3. PLASTIC (INCL. SCRATCH RESISTANT "HARDCOATING")							
R66903	7 7/8			Parabolic Hwy Crossing Reflector		25	Plastic
R66903-GD	7			Parabolic Hwy Crossing Reflector - Ground Down		25	Plastic
R66903-H	7 7/8			Parabolic Hwy Crossing Reflector - WITH HOLE		25	Plastic
RP12-4-NH	12	4		Same as R-12-4-NH		5	Plastic
RP12-238-1H	12	2 3/8		Same as RM12-2-1H		5	Plastic
RP12-238-25H	12	2 3/8		Same as RM12-2-25H		5	Plastic

NOTE: All plastic reflectors are treated with a clear hard coat to resist scratching

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CROSS REFERENCE
Part numbers assigned by signal manufacturers to General Signals lenses

		Harmon	WABCO US&S Co.	RACO Safetran	Lancaster	WRRS Western Cullen-Hayes	Customer Number	GSI CATALOG NUMBER
1. GLASS								
		23006-000			010-247	950-275C		R-8-238-NH
					0102-247			R-8-178-NH
				042388				R115-238-NH
		23006-000			0111-247	975-275C		R-12-4-NH
					0101-247	975-276		R-12-238-NH
2. METAL								
			J532137-0201					RM12-2-1H
		23093-000						RM12-2-25H
3. PLASTIC (INCL. SCRATCH RESISTANT "HARDCOATING")								
				042376 042375-5				R66903
	FITS GRS	OLD STYLE						R66903-GD
								R66903-H
								RP12-4-NH
								RP12-238-1H
								RP12-238-25H

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C. WAYSIDE SIGNALS — Train Order Lights

1. New Style Color Lights
   a. Outer Doublets
   b. Inner Doublets
   c. Protectors
2. Dwarf Color Lights
   a. Outer Doublets
   b. Inner Doublets
3. Dwarf Clear Color Lights
4. Inverted Color Lights
   a. Outer Doublet
   b. Inner Doublet
5. Small Color Lights
   a. Outer Doublet
   b. Inner Doublet
6. Semaphore Color Lights
   (Colored /Single Lens System)
7. Search Lights
   a. Outer Lens (Clear)
   b. Outer Lens (Colored)
   c. Inner Lens
   d. Colored Roundel/Disc
8. Position Lights
   a. Outer Lens
   b. Inner lens
9. Switch Lamps

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WAYSIDE SIGNALS

GSI CATALOG NUMBER	DIA. (In.)	FOCUS (In.)	COLOR	DESCRIPTION	WGT. (Lbs)	STD. PKG.	MATERIAL
1a. NEW STYLE COLOR LIGHTS — OUTER DOUBLETS							
2-6450-C-L	8 3/8	4	Clear	Outer Doublet - Color Light Smooth outer surface	22	25	Lexan
2-6450-30C-L	8 3/8	4	Clear	Outer Doublet - 30° Spreadlight	22	26	Lexan
2-6450-40C-L	8 3/8	4	Clear	Outer Doublet - 40° Defelcting Bullseye	22	25	Lexan
2-6450-40CLM	8 3/8	4	Clear	Outer Doublet - 40° Deflecting Bullseye - Top Indicated by Mark			
6450-C	8 3/8	4	Clear	Outer Doublet - Color Light	22	25	Plexiglas
6450-40-C	8 3/8	4	Clear	Outer Doublet - 40° Deflecting Bullseye	22	25	Plexiglas
6450-40-C-M	8 3/8	4	Clear	Outer Doublet - 40° Deflecting Bullseye - Top Marked	22	25	Plexiglas
6450-C-GL	8 3/8	4	Clear	Outer Doublet - Color Light	24	16	Glass
6450-40-C-GL	8 3/8	4	Clear	Outer Doublet - 40° Deflecting Bullseye	24	16	Glass
6450-R	8 3/8	4	Red	Outer Doublet - Color Light	22	25	Plexiglas
68-202-40	8 3/8	6	Clear	40° Deflecting Bullseye	18	25	Plexiglas
68-202-C	8 3/8	6	Clear	Optical	18	25	Plexiglas
1b. NEW STYLE COLOR LIGHTS — INNER DOUBLETS							
6690-R	5 1/2	1/2	Red	Inner Doublet - Color Light	10	25	Plexiglas
6690-Y	5 1/2	1/2	Yellow	Inner Doublet - Color Light	10	25	Plexiglas
6690-G	5 1/2	1/2	Green	Inner Doublet - Color Light	10	25	Plexiglas
6690-LW	5 1/2	1/2	Lunar White	Inner Doublet - Color Light	10	25	Plexiglas
6690-GG	5 1/2	1/2	Green-Green	Inner Doublet - Color Light	10	25	Plexiglas
6690-C	5 1/2	1/2	Clear	Inner Doublet - Color Light	10	25	Plexiglas

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CROSS REFERENCE
Part numbers assigned by signal manufacturers to General Signals lenses

Kopp Glass	GRS Glass	GRS Lexan & Plastic	Other	WABCO US&S Co.	RACO Safetran	Adlake	Customer Number	GSI CATALOG NUMBER
1a. NEW STYLE COLOR LIGHTS — OUTER DOUBLETS								
R1-4294	P73-735 P73-804	P73-939 P73-940		UJ53127 71186	042257-5			2-6450-C-L
RL-4384	P73-738 P73-802	43987-27 P73-943 P73-942		UJ53167 135757	042257-7			2-6450-30C-L
	P73-253 P73-800	P73-932 P73-941			UJ53720 182570	042257-2 042257-6		2-6450-40C-L
								2-6450-40CLM
RL-4284	P73-735 P73-804	P73-940 P73-939	L&W4554-C	UJ53127 71186	042257-5			6450-C
	P73-253 P73-800	P73-932 P73-941	L&W 4554	UJ53720 182570	042257-6			6450-40-C
								6450-40-C-M
RL-4284	P73-735 P73-804			UJ53127 71186	042257-5			6450-C-GL
RL-4294	P73-253 P73-800			UJ53720 182570	042257-6			6450-40-C-GL
			Modern 01450019					6450-R
								68-202-40
								68-202-C
1b. NEW STYLE COLOR LIGHTS — INNER DOUBLETS								
	P73-256	P73-950	Modern 1450007	UJ53131 71329	042257-4R	232-17-70		6690-R
	P73-255	P73-949		UJ53124 68162 531498	042257-4Y	232-17-71		6690-Y
	P73-254	P73-948	Modern 0100443	UJ53133 71331	042257-4G	232-17-72		6690-G
	P73-746	P73-952		UJ53164	042257-4L	232-17-73		6690-LW
RL-4262								6690-GG
	P73-745	P73-951		UJ53132	042257-4C			6690-C

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WAYSIDE SIGNALS

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1b. NEW STYLE COLOR LIGHTS — INNER DOUBLETS (continued)							
6690-B	5 1/2	1/2	Blue	Inner Doublet - Color Light	10	25	Plexiglas
K1776-R	5 1/2	1/2	Red	Inner Doublet - Color Light	24	36	Glass
K1776-Y	5 1/2	1/2	Yellow	Inner Doublet - Color Light	25	36	Glass
K1776-G	5 1/2	1/2	Green	Inner Doublet - Color Light	25	36	Glass
K1776-LW	5 1/2	1/2	Lunar White	Inner Doublet - Color Light	25	36	Glass
K1776-P	5 1/2	1/2	Purple	Inner Doublet - Color Light	25	36	Glass
1c. NEW STYLE COLOR LIGHTS — PROTECTORS							
77-1-P	10		Clear	Fits Over Color Lights & Search Lights	24	25	Lexan
80-2-P	10		Clear	Fits Over Color Lights Safetran & GRS Only	24	25	Lexan
2a. DWARF COLOR LIGHTS — OUTER DOUBLETS							
6560-C-L	6 3/8	3 3/4	Clear	Outer Doublet - Optical	15	25	Lexan
6570-C-L	6 3/8	3 3/4	Clear	Optical - 40° Deflecting Bullseye	15	25	Lexan
7180-30-C-L	6 3/8	3 3/4	Clear	Outer Doublet - 30° Spread Light	15	25	Lexan
7180-30-R	6 3/8	3 3/4	Red	Outer Doublet - 30° Spread Light	15	25	Plexiglas
6560-C	6 3/8	3 3/4	Clear	Outer Doublet - Optical - Dwarf	15	25	Plexiglas
6560-C-F	6 3/8	3 3/4	Clear/Frosted	Optical Outer Doublet - Frosted	15	25	Plexiglas
6560-C-GL	6 3/8	3 3/4	Clear	Outer Doublet - Optical	45	48	Glass
6560-R	6 3/8	3 3/3	Red	Outer Doublet - Optical Dwarf	15	25	Plexiglas

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Kopp Glass	GRS Glass	GRS Lexan Plastic	Other	WABCO US&S Co.	RACO Safetran	Adlake	Customer Number	GSI CATALOG NUMBER
1b. NEW STYLE COLOR LIGHTS — INNER DOUBLETS (continued)								
								6690-B
RL-4262	P73-256 P73-817			UJ53131 71329				K1776-R
RL-4262	P73-255 P73-816			UJ53124 68162				K1776-Y
RL-4262	P73-254 P73-819		Modern 0100443	UJ53133 71331				K1776-G
RL-4262	P73-746 P73-818			UJ53164				K1776-LW
RI-4262								K1776-P
1c. NEW STYLE COLOR LIGHTS — PROTECTORS								
					31250			77-1-P
					31245-X 31252-X			80-2-P
2a. DWARF COLOR LIGHTS — OUTER DOUBLETS								
	P73-319 P73-344	P73-944 P73-945		UJ53125 68507	042210			6560-C-L
	P73-320 P73-345	P73-947 P73-946			042210-1			6570-C-L
				UJ53108				7180-30-C-L
								7180-30-R
	P73-319 P73-344	P73-944 P73-945	Modern 01450005	UJ53125 J68507				6560-C
					042210-F			6560-C-F
	P73-944 P73-319 P73-945			UJ53125				6560-C-GL
								6560-R

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WAYSIDE SIGNALS

GSI CATALOG NUMBER	DIA. (In.)	FOCUS (In.)	COLOR	DESCRIPTION	WGT. (Lbs)	STD. PKG.	MATERIAL
2a. DWARF COLOR LIGHTS — OUTER DOUBLETS (continued)							
6560-LW	6 3/8	3 3/4	Lunar White	Outer Doublet - Optical - Dwarf	15	25	Plexiglas
6560-Y	6 3/8	3 3/4	Yellow	Outer Doublet - Optical - Dwarf	15	25	Plexiglas
6570-C	6 3/8	3 3/4	Clear	Outer Doublet - Optical 40° Deflecting Bullseye	15	25	Plexiglas
2b. DWARF COLOR LIGHTS — INNER DOUBLETS							
6690-R	5 1/2	1/2	Red	Inner Doublet - Color Light	10	25	
6690-Y	5 1/2	1/2	Yellow	Inner Doublet - Color Light	10	25	
6690-G	5 1/2	1/2	Green	Inner Doublet - Color Light	10	25	
6690-LW	5 1/2	1/2	Lunar White	Inner Doublet - Color Light	10	25	
6690-C	5 1/2	1/2	Clear	Inner Doublet - Color Light	10	25	
K1776-R	5 1/2	1/2	Red	Inner Doublet - Color Light	24	36	Glass
K1776-Y	5 1/2	1/2	Yellow	Inner Doublet - Color Light	24	36	Glass
K1776-G	5 1/2	1/2	Green	Inner Doublet - Color Light	24	36	Glass
K1776-LW	5 1/2	1/2	Lunar White	Inner Doublet - Color Light	24	36	Glass
K1776-P	5 1/2	1/2	Purple	Inner Doublet - Color Light	24	36	Glass
3. DWARF CLEAR COLOR LIGHTS							
1169-4-C-L	4	2 1/4	Clear	Optical	8	25	Lexan
1169-5-C-L	4	—	Clear	Frosted 20° Flat Spreader Position Light	8	25	Lexan
569-2-C-L	4	—	Clear	Convex - 20° Deflection	8	25	Lexan

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CROSS REFERENCE
Part numbers assigned by signal manufacturers to General Signals lenses

Kopp Glass	GRS Glass	GRS Plastic	GRS Lexan	WABCO US&S Co.	RACO Safetran	Adlake of Modern	Customer Number	GSI CATALOG NUMBER
2a. DWARF COLOR LIGHTS — OUTER DOUBLETS (continued)								
								6560-LW
								6560-Y
RL-4271	P73-320 P73-345	P73-946	P73-947		o42210-1			6570-C
2b. DWARF COLOR LIGHTS — INNER DOUBLETS								
	P73-256	P73-950		UJ53131 71329	042257-4R	Modern 1450007 Adlake 232-17-70		6690-R
	P73-255	P73-949		UJ53124 68162 531498	042257-4Y	Adlake 232-17-71		6690-Y
	P73-254	P73-948		UJ53133 71331	042257-4G	Modern 0100443 Adlake 232-17-72		6690-G
	P73-746	P73-952		UJ53164	042257-4L	Adlake 232-17-73		6690-LW
	P73-745	P73-951		UJ53132	042257-4C			6690-C
RL4262	P73-256 P73-817			UJ53131 71329				K1776-R
RL4262	P73-255 P73-816			UJ53124 68162				K1776-Y
RL4262	P73-254 P73-819			UJ53133 71331		Modern 0100443		K1776-G
RL4262	P73-746 P73-818			UJ53164				K1776-LW
RL4262								K1776-P
3. DWARF CLEAR COLOR LIGHTS								
	P73-875	P73-955	P73-954	UJ53126				1169-4-C-L
			P76-448	UJ53332 188985				1169-5-C-L
	P73-846 P73-936	P73-857	P73-977 P73-677	N-437953				569-2-C-L

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WAYSIDE SIGNALS

GSI CATALOG NUMBER	DIA. (In.)	FOCUS (In.)	COLOR	DESCRIPTION	WGT. (Lbs)	STD. PKG.	MATERIAL
4a. INVERTED COLOR LIGHTS — OUTER DOUBLETS (colored)							
770-2-R	5 3/8	—	Red	Convex - 20° Vertical Deflection - 18° Horizontal Spread Light	8	25	
770-2-Y	5 3/8	—	Yellow	Convex - 20° Vertical Deflection - 18° Horizontal Spread Light	8	25	
770-2-G	5 3/8	—	Green	Convex - 20° Vertical Deflection - 18° Horizontal Spread Light	8	25	
770-2-GG	5 3/8	—	Green-Green	Convex - 20° Vertical Deflection - 18° Horizontal Spread Light	8	25	
770-2-LW	5 3/8	—	Lunar White	Convex - 20° Vertical Deflection - 18° Horizontal Spread Light	8	25	
770-2-C	5 3/8	—	Clear	Convex - 20° Vertical Deflection 18° Horizontal Spread Light	8	25	
770-2-HP-L	5 3/8	—	Penn Yellow	Convex - 20° Vertical Deflection - 18° Horizontal Spread Light	8	25	
770-2-PY	5 3/8	—	Penn Yellow	Convex - 20° Vertical Deflection - 18° Horizontal High Position Spreadlight	8	25	
4b. INVERTED COLOR LIGHTS — INNER DOUBLETS (clear)							
670-1-C	5 3/8	2 1/4	Clear	Inverted Inner Doublet	10	25	Plexiglas
670-1-C-F	5 3/8	2 1/3	Clear	Inverted Inner Doublet w/ Frosted Bullseye	10	25	Plexiglas
5a. SMALL COLOR LIGHTS — OUTER DOUBLETS (clear)							
64-3-C-GD	5	—	Clear	Optical - Switch Lamp - Ground Down	8	25	Plexiglas
5b. SMALL COLOR LIGHTS — INNER DOUBLET (colored)							
7510-R	3 5/8	5/8	Red	Inner Doublet	8	25	Plexiglas
7510-Y	3 5/8	5/8	Yellow	Inner Doublet	8	25	Plexiglas
7510-G	3 5/8	5/8	Green	Inner Doublet	8	25	Plexiglas

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Kopp Glass	GRS Glass	GRS Plastic	GRS Lexan	WABCO US&S Co.	RACO Safetran	Modern	Customer Number	GSI CATALOG NUMBER
4a. INVERTED COLOR LIGHTS — OUTER DOUBLETS (colored)								
		P73-707 P73-836	P73-969P		040405-13			770-2-R
		P73-708 P73-837	P73-970-P		040405-15			770-2-Y
		P73-709 P73-838	P73-971-P		040405-14			770-2-G
								770-2-GG
		P73-710 P73-839	P73-968-P					770-2-LW
				172131				770-2-C
				UJ53331				770-2-HP-L
								770-2-PY
4b. INVERTED COLOR LIGHTS — INNER DOUBLETS (clear)								
RL-4261	P73-775	P73-975		64541				670-1-C
								670-1-C-F
5a. SMALL COLOR LIGHTS — OUTER DOUBLET (clear)								
RL-4255		P73-764 P73-726						64-3-C-GD
5b. SMALL COLOR LIGHTS — INNER DOUBLET (colored)								
	P73-757							7510-R
	P73-756							7510-Y
	P73-755							7510-G

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WAYSIDE SIGNALS

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5b. SMALL COLOR LIGHTS — INNER DOUBLET (colored)(continued)							
7510-LW	3 5/8	5/8	Lunar White	Inner Doublet	8	25	Plexiglas
7510-**-GD	3 1/2	—	**	Inner Doublet 3 1/2" Ground Down Inner Doublet		25	
6. SEMAPHORE COLOR LIGHTS (colored/single lens style)							
7111-R	5 3/8	—	Red	Convex - Semaphore - Wayside Signal	8	25	Plexiglas
7111-Y	5 3/8	—	Yellow	Convex - Semaphore - Wayside Signal	8	25	Plexiglas
7111-G	5 3/8	—	Green	Convex - Semaphore - Wayside Signal	8	25	Plexiglas
7111-LW	5 3/8	—	Lunar White	Convex - Semaphore - Wayside Signal	8	25	Plexiglas
7111-C	5 3/8	—	Clear	Convex - Semaphore - Wayside Signal	8	25	Plexiglas
7111-CP	5 3/8	—	Clear	Painted Roundel - "WAIT"	8	25	Plexiglas
7112-R	8 3/8	—	Red	Convex - Semaphore - Wayside Signal	9	25	Plexiglas
7112-Y	8 3/8	—	Yellow	Convex - Semaphore - Wayside Signal	9	25	Plexiglas
7112-G	8 3/8	—	Green	Convex - Semaphore - Wayside Signal	9	25	Plexiglas
7112-GG	8 3/8	—	Green-Green	Convex - Semaphore - Wayside Signal	9	25	Plexiglas
7112-LW	8 3/8	—	Lunar White	Convex - Semaphore - Wayside Signal	9	25	Plexiglas
7112-C	8 3/8	—	Clear	Convex - Semaphore - Wayside Signal	9	25	Plexiglas
7112-CP	8 3/8	—	Clear	Painted Roundel - "WAIT"	9	25	Plexiglas
7111-**-GD	5	—	**	Convex - Semaphore - Wayside Signal Ground Down to 5" Diameter	8	25	Plexiglas
7112-**-GD6	6	—	**	Convex - Semaphore - Wayside Signal Ground Down to 6" Diameter	8	25	Plexiglas

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5b. SMALL COLOR LIGHTS — INNER DOUBLET (colored)(continued)								
	P73-758							7510-LW
								7510-**-GD
6. SEMAPHORE COLOR LIGHTS (colored/single lens style)								
	P73-716	P73-972				AAR14141		7111-R
	P73-717	P73-973		40405-134		AAR14142		7111-Y
	P73-718	P73-974				AAR14143		7111-G
								7111-LW
	P73-715		UJ53306					7111-C
								7111-CP
	P73-271	P73-960 P73-841		042295-6R		AAR14147		7112-R
	P73-771	P73-961 P73-880		042295-6Y		AAR14148		7112-Y
	P73-770	P73-962 P73-842		042295-6G		AAR14149		7112-G
								7112-G
	P73-773 P73-844	P73-963						7112-LW
	P73-772							7112-C
								7112-CP
								7111-**-GD
								7112-**-GD6

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WAYSIDE SIGNALS

GSI CATALOG NUMBER	DIA. (In.)	FOCUS (In.)	COLOR	DESCRIPTION	WGT. (Lbs)	STD. PKG.	MATERIAL
7a. SEARCH LIGHTS — OUTER LENS (clear)							
6680-C-L *	8 3/8	—	Clear	Flat - 10º Deflecting w/Plain Center	18	25	Lexan
6680-C-F-L	8 3/8	—	Clear	Flat - Plain - 1/4" Thick Protector for 7311-S	18	25	Lexan
6680-C-BT *	8 3/8	—	Clear	Edge Reflection - Protection w/Black Trim - Flat - 10º Deflecting - Plain Center	18	25	Lexan
6795-C *	8 3/8	—	Clear	Convex - Cover Lens 20º Deflecting Search Light	18	25	Plexiglas
7150-C-L *	8 3/8	5	Clear	Optical	22	25	Lexan
7150-40-C-L *	8 3/8	5	Clear	40º Bullseye	22	25	Lexan
7150-C-GL	8 3/8	5	Clear	Optical	17	20	Glass
7150-40-C-GL *	8 3/8	5	Clear	40º Bullseye Outer Doublet	24	16	Glass
7311-S	8 3/8	11 1/2	Clear	Plano - Convex - Search Light	6	4	Glass
7370-BE-C-L	8 3/8	—	Clear	Convex - 70º Spread Light w/Hot Spot	18	25	Lexan
K4290-20C-GL	8 3/8	—	Clear	Flat - 20º Deflecting w/Plain Center		60	Glass
7b. SEARCH LIGHTS — OUTER LENS (colored)							
6795-R	8 3/8	—	Red	Convex - Cover Lens 20º Deflecting - Search Light	18	25	Plexiglas
7c. SEARCH LIGHTS — INNER LENS (clear-PLANO)							
77555-C	4 1/2	5 1/2	Clear	Magnifying Compound - Plano Convex	15	10	Glass
77565-C	4 1/2	6 1/2	Clear	Magnifying Compound - Plano Convex	15	10	Glass

* THESE CAN BE USED ALONG w/7311-S IN VARIOUS COMBINATIONS
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Kopp Glass	GRS Glass	GRS Plastic Lexan	WABCO US&S Co.	RACO Safetran	Modern	WRRS Western-Cullen-Hayes	Customer Number	GSI CATALOG NUMBER
7a. SEARCH LIGHTS — OUTER LENS (clear)								
		P73-857 P73-959	UN222600 UJ53326	042295-3	01510013			6680-C-L *
		P76-264	UN249111 437954					6680-C-F-L
			N256211 UJ530105					6690-C-BT
	P76-111 A76-866	P73-958 160521		042257-8				6795-C
	P76-323	P76-489						7150-C-L *
	P76-324	P73-930 P73-938	107583					7150-40-C-L *
RL-4283	P76-323 P76-489		UJ53738 159052					7150-C-GL
RL-4296	P76-324 P76-441	P73-938 P73-930	UN170583 UJ53710					7150-40-C-GL *
RL-4281	P76-149 P76-442		UJ53746 169299	042295-5	01450022			7311-S
								7370-BE-C-L
			UN199883					K4290-20C-GL
7b. SEARCH LIGHTS — OUTER LENS (colored)								
								6795-R
7c. SEARCH LIGHTS — INNER LENS (clear-PLANO)								
RL4282	P76-447		169298 UJ53745					77555-C
	P76-150							77565-C

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WAYSIDE SIGNALS

GSI CATALOG NUMBER	DIA. (In.)	FOCUS (In.)	COLOR	DESCRIPTION	WGT. (Lbs)	STD. PKG.	MATERIAL
7d. SEARCH LIGHTS — COLORED ROUNDEL DISC							
1-088-GL-R	1		Red	Heat Treated w/Aluminum Rim - 0.0625" Thick		10	
1-088-GL-Y	1		Yellow	Heat Treated w/Aluminum Rim - 0.0625" Thick		10	
1-088-GL-LW	1		Lunar White	Heat Treated w/Aluminum Rim - 0.0625" Thick		10	
1-088-GL-G	1		Green	Precracked and Heat Treated w/Aluminum Rim - 0.0625" Thick		10	
1K-4501-G	1		Green	Conical - Heat Treated w/Aluminum Rim		10	
1K-4501-Y	1		Yellow	Conical - Heat Treated w/Aluminum Rim		10	
8a. POSITION LIGHTS — OUTER LENS							
1269-6-HP-L	5 3/8		Penn Yellow	High Position Lights - Conical - Frosted Tip	14	25	Lexan
1269-6-C-L	5 3/8		Clear	Conical - Position Lights	14	25	Lexan
1269-6-R	5 3/8		Red	Conical - Frosted Tip - Position Light	14	25	Plexiglas
1269-6-Y	5 3/8		Yellow	Conical - Frosted Tip - Position Light	14	25	Plexiglas
1269-6-G	5 3/8		Green	Conical - Frosted Tip - Position Light	14	25	Plexiglas
770-2-HP-L	5 3/8		Penn Yellow	Convex - 20° Deflection - 18° Spread Light	8	25	Lexan
8b. POSITION LIGHTS — INNER LENS							
6560-C-F	6 3/8	3 3/4	Clear	Optical Outer Doublet - Frosted	15	25	Plexiglas
6690-C	5 1/2	1/2	Clear	Inner Doublet - Color Light	15	25	Plexiglas
870-3-C	5 3/8	—	Clear	Flat - 20° Vertical Deflection 18° Horizontal Spread Light	8	25	Plexiglas
870-3-R	5 3/8	—	Red	Flat - 20° Vertical Deflection 18° Horizontal Spread Light	8	25	Plexiglas
870-3-Y	5 3/8	—	Yellow	Flat - 20° Vertical Deflection 18° Horizontal Spread Light	8	25	Plexiglas
870-3-G	5 3/8	—	Green	Flat - 20° Vertical Deflection 18° Horizontal Spread Light	8	25	Plexiglas

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7d. SEARCH LIGHTS — COLORED ROUNDEL DISC								
	P76-405							1-088-GL-R
	P76-407							1-088-GL-Y
	P76-408		053745					1-0-88-GL-LW
	P76-406							1-088-GL-G
			N413965 J532-077					1K-4501-G
			N413966 J532-078					1K-4501-Y
8a. POSITION LIGHTS — OUTER LENS								
			UJ53123		NA714673			1269-6-HP-L
			UJ53034					1269-6-C-L
								1269-6-R
								1269-6-Y
								1269-6-G
			UJ53331					770-2-HP-L
8b. POSITION LIGHTS — INNER LENS								
			535010	042210-F				6560-C-F
	P73-745	P73-951	UJ53132	042257-4C				6690-C
			250591 UJ532004					870-3-C
			UN321275 UJ532074					870-3-R
			250592 UJ532005					870-3-Y
			268661 UJ532010					870-3-G

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8b. POSITION LIGHTS — INNER LENS (continued)							
870-3-LW	5 3/8	—	Lunar White	Flat - 20° Vertical Deflection - 18° Horizontal Spread Light	8	25	Plexiglas
670-1-C	5 3/8	2 1/4	Clear	Inverted - Position Light	10	25	Plexiglas
670-1-C-F	5 3/8	2 1/4	Clear	Inverted - Position Light - Frosted Bullseye	10	25	Plexiglas
670-1-R	5 3/8	2 1/4	Red	Inverted - Position Light	10	25	Plexiglas
9. SWITCH LAMPS							
60-1-C	5 3/8	3 1/2	Clear	30° Spread Light - 10° Deflection - Switch Lamps	8	25	Plexiglas
60-1-R	5 3/8	3 1/2	Red	30° Spread Light - 10° Deflection - Switch Lamps	8	25	Plexiglas
60-1-Y	5 3/8	3 1/2	Yellow	30° Spread Light - 10° Deflection Switch Lamps & Derail Lamps	8	25	Plexiglas
60-1-P	5 3/8	3 1/2	Purple	30° Spread Light - 10° Deflection - Switch Lamps	8	25	Plexiglas
60-1-G	5 3/8	3 1/2	Green	30° Spread Light - 10° Deflection - Switch Lamps	8	25	Plexiglas
60-1-B	5 3/8	3 1/2	Blue	30° Spread Light - 10° Deflection - Switch Lamps	8	25	Plexiglas
60-1-LW	5 3/8	3 1/2	Lunar White	30° Spread Light - 10° Deflection - Switch Lamps	8	25	Plexiglas
64-3-C	5 3/8	3 1/2	Clear	Optical - Switch Lamps	8	25	Plexiglas
64-3-R	5 3/8	3 1/2	Red	Optical - Switch Lamps	8	25	Plexiglas
64-3-Y	5 3/8	3 1/2	Yellow	Optical - Switch Lamps	8	25	Plexiglas
64-3-G	5 3/8	3 1/2	Green	Optical - Switch Lamps	8	25	Plexiglas
64-3-P	5 3/8	3 1/2	Purple	Optical - Switch Lamps	8	25	Plexiglas
64-3-P-GL	5 3/8	3 1/2	Purple	Optical - Switch Lamps	8	25	Glass
64-3-B	5 3/8	3 1/2	Blue	Optical - Switch Lamps	8	25	Plexiglas

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8b. POSITION LIGHTS — INNER LENS (continued)								
			UN346816 UJ532115					870-3-LW
RL-4261	P73-775	P73-975	64541					670-1-C
								670-1-C-F
								670-1-R
9. SWITCH LAMPS								
					232-17-31			60-1-C
		P73-750 P73-953		042257-9R	232-17-25 232-17-92	1880-21R 5330		60-1-R
				042257-9Y	232-17-27 232-17-93	1880-21-Y		60-1-Y
					232-17-29			60-1-P
				042257-9G	232-17-26 232-17-94	1880-21G		60-1-G
					232-17-28			60-1-B
					232-17-30	1880-21LW		60-1-LW
					232-17-39			64-3-C
RL-4260				042331-R	232-17-42			64-3-R
			UJ53365	042331-Y	232-17-35			64-3-Y
				042331-G	232-17-34			64-3-G
					232-17-37			64-3-P
								63-3-P-GL
			132620 53286 115531		232-17-36			64-3-B

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9. SWITCH LAMPS (continued)							
64-3-LW	5 3/8	3 1/2	Lunar White	Optical - Switch Lamps	8	25	Plexiglas
64-3-GG	5 3/8	3 1/2	Green-Green	Optical Switch Lamps	8	25	Plexiglas
60-1-**-GD	5	—	**	Optical - Ground Down - Switch Lamps	8	25	Plexiglas
64-3-**-GD	5	—	**	Optical - Ground Down - Switch Lamps	8	25	Plexiglas
26901-C[A]	4 1/2	3	Clear	Optical - Switch Lamp	8	25	Plexiglas
26901-R[A]	4 1/2	3	Red	Optical - Switch Lamp	8	25	Plexiglas
26901-Y[A]	4 1/2	3	Yellow	Optical - Switch Lamp	8	25	Plexiglas
26901-G[A]	4 1/2	3	Green	Optical - Switch Lamp	8	25	Plexiglas
26901-LW[A]	4 1/2	3	Lunar White	Optical - Switch Lamp	8	25	Plixiglas
26901-GG[A]	4 1/2	3	Green-Green	Optical - Switch Lamp	8	25	Plexiglas
26901-B[A]	4 1/2	3	Blue	Optical - Switch Lamp	8	25	Plexiglas
26901-B-GL	4 1/2	3	Blue	Optical - Switch Lamp	—	—	Glass
26901-**-GD[A]	3 1/2	—	**	Optical - Switch Lamp - Ground Down	8	25	Plexiglas
26901-**-GDGD	1 5/8	—	**	Optical - Switch Lamp - Ground Down	8	25	Plexiglas
26901-GD4	4	—	**	Optical - Switch Lamp - Ground Down	8	25	Plexiglas
K4227-C-GL	3 1/2	2 1/4	Clear	Clear Glass	—	—	Glass
K-4236-C-GL	4		Clear	Clear Glass	—	—	Glass

A — AVAILABLE IN GLASS — INQUIRE
** — ALL COLORS AVAILABLE

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CROSS REFERENCE
Part numbers assigned by signal manufacturers to General Signals lenses

Kopp Glass	GRS Plastic	WABCO US&S Co.	WRRS Western Cullen-Hayes	Adlake			Customer Number	GSI CATALOG NUMBER
9. SWITCH LAMPS (continued)								
		187789		232-17-28				64-3-LW
								64-3-GG
								60-1-**-GD
RL-4255	P73-764 P73-726	J53155(G) 79223(R) 79224(Y)	688-22(G)					64-3-**-GD
				232-17-66				26901-C[A]
RL-4250		J531505	1870-21R	232-17-63				26901-R[A]
			1870-21Y	232-17-43				26901-Y[A]
				232-17-64				26901-G[A]
				232-17-44				26901-LW[A]
								26901-GG
				232-17-65				26901-B[A]
								26901-B-GL
		J53165						26901-**-GD
								26901-**-GDGD
								26901-**-GD4
								K-4227-C-GL
								K-4236-C-GL

** — ALL COLORS AVAILABLE

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D. RAILWAY SIGNAL LAMPS

Train & Transit Lamps

Fluorescent Lamps

RAILWAY SIGNAL LAMPS§

1988

This section includes the electrical and physical specifications for Incandescent Railway Signal lamps. Also shown is the Item number assigned to these lamps by the Association of American Railroads. For your information these Item numbers are shown in the A.A.R. Signal Manual under the Activity Group Table—Incandescent Electric Lamps for Railroad Signal purposes.

Lamp Ordering Code	AAR #	Watts or Amps	Volts	Bulb	Finsh	Base	Fil. Shape	LCL	MOL	Avg. Rated Life (Hrs.)**
1¼G6/2	29	1.25A	12	G6	Clear	Cand.	C-2V	1	1 5/8	1500
5S11/94SC★	63	5	10	S11	Clear	S.C.Bay.	C-2R	1¼	2 3/8	1000
5/3½S11SC★	64 3½	5	10	S11	Clear	S.C.Bay.	C2V C12	1¼	2 3/8	1000
9G16½/1►	33	9	12	G16½	Clear	2-Lug Sleeve	CC6	—	2 15/16	1500
9T7/ISC	27	9	12	T7	Clear	S.C.Bay.	CC6	1¼	2 3/8	1500
10S11/5SC‡	49	10	120	S11	Clefar	S.C.Bay.	C-7A	1¼	2 3/8	1500
11S11/4SC★	98	11	10	S11	Clear	S.C.Bay.	CC-6	1¼	2 3/8	1000
11S11SC★	72	11	11	S11	Clear	S.C.Bay.	CC6	1¼	2 3/8	2500
13/3½S11/95★§§	67	13 3½	10	S11	Clear	S.C.Bay.	CC6	1¼	2 3/8	1000
15A/S8SC/IF	84	0.15A	2.9	S8	IF	S.C.Bay.	C2R	—	2	1000
17S11SC★	75	17	13.5	S11	Clefar	S.C.Bay.	CC6	1¼	2 3/7	2000
18A15/3►†§§	95	18	10	A15	Clear	2-Lug Sleeve	CC-6	2 7/32	3¾	1500
18A15/7►†§§	94	18	10	A15	Clear	3-Lug Sleeve	CC-6	2 3/32	3¾	1500
18S11/1SC★§§	88	18	10	S11	Clear	S.C.Bay	CC-6	1¾	2 3/8	1000
18/3½S11SC★	102	18 3½	8	S11	Clear	S.C.Bay	CC-6 C-12	1¼	2 3/8	1000
18/3½S11SC★	101	18 3½	10	S11	Clear	S.C.Bay.	CC-6 C-12	1¼	2 3/8	1000
18/3.5A15/5►†	96	18 3½	10	A15	Clear	2-Lug Sleeve	CC-6 CC-6	2 7/32	3¾	1500
18/3.5A15/7►†	93	18	10	A15	Clear	3-Lug Sleeve	CC-6 CC-6	2 3/16	3¾	1500
25G16½SC‡	35	25	120	G16½	Clear	S.C.Bay.	C5	1¼	3	1000
25S11/4SC★§§	100	25	10	S11	Clear	S.C.Bay.	CC-6	1¼	2 3/8	1000
40A15/2►†	19	40	10	A15	Clear	2-Lug Sleeve	C-2V	2 7/32	3¾	1500
40A15/3►†	20	40	10	A15	Clear	3-Lug Sleeve	C-2V	2 3/16	3¾	1500
1161	83	1.35	12.8	S8	Clear	S.C.Bay.	CC-6	1¼	2	500
25A/S8/1SC	47	.25	13.5	S8	Clear	S.C.Bay.	C-2R	1¼	2	1000

★ Light center length A.A. tolerance — 1/64".
‡ Light center length and A.A. tolerance — 1/16".
► Single contact medium bayonet base without pins, with a lug focusing sleeve as indicated. LCL and A.A. tolerance —1/16".
† Will operate in any position, but lumen maintenance is best when burned vertically base up.
** Average rated life is the number of hours to burn out 50% of the lamps in a test-sample group when tested under laboratory-controlled conditions.
§ Lamps are shipped only in multiples of full-standard packages of 120 pieces.
§§ Std. stock lamps.

TRAIN & TRANSIT LAMPS§

1988

This section includes the electrical and physical specifications for incandescent lamps designed specifically for the transportation industry.

Lamp Ordering Code	Volts	Watts or Amps	Bulb	Base	Fil. Shape	MOL	Avg. Rated Life (Hrs.)**	Description
5S14	34	5	S14	Med.	C-9	3½	1000	Clear-Train
6S6/B	120	6	S6	Cand.	C-7A	1 7/8	1500	Sprayed Blue-Train
6S6DC	48	6	S6	D.C.Bay.	C-7A	1 13/16	1500	Indicator
6S6	30	6	S6	Cand.	C-2V	1 7/8	1500	Clear-Train
6S6	32	6	S6	Cand.	C-2V	1 7/8	1500	Clear-Train
6S6	60	6	S6	Cand.	C7A	1 7/8	1500	Clear-Train
6S6	75	6	S6	Cand.	C7A	1 7/8	1500	Clear-Train Indicator
6S6/5SC	60	6	S6	S.C.Bay.	C-1	1 13/16	1500	Clear-Train
15A	12	15	A17	Med.	C-6	3 5/8	1000	IF—Train
15A	34	15	A17	Med.	C-9	3 5/8	1000	Inside Frosted-Train (2)
15A	75	15	A17	Med.	C-9	3 5/8	1000	inside Frosted-Train
15S11/3DC	75	15	S11	D.C.Bay.	C-1	2 3/8	1000	Clear-Train
15S14/IF	34	15	S14	Med.	C-9	3½	1000	Inside Frosted-Locomotive Cab
15S14/8	34	15	S14	Med.	C-9	3½	1000	Inside Frosted-Train Control
15T6	60	15	T6	Cand.	C-1	3 1/16	2000	Clear-Train
20R12SC	30	20	R12	S.C.Bay.	CC-8	2 5/8	500	Train Reading Lamp-Reflector-Light Outside Frosted
25A17/RS	75	25	A17	Med.	C-9	3 5/8	1000	Inside Frosted-Train, Rough Service
25A	30	25	A19	Med.	C-9	3 7/8	1000	Inside Frosted-Train (2)
25A	34	25	A19	Med.	C-9	3 7/8	1000	Inside Frosted-Train (2)
25A	60	25	A19	Med.	C-9	3 7/8	1000	Inside Frosted-Train (2)
25OAR/FL	34	25	PAR38	Med.Skt.	C-6	5 5/16	1000	PAR-Train-Floodlight
25PAR/FL	60	25	PAR38	Med.Skt.	C-6	5 5/16	1000	PAR-Train-Floodlight
25T8½IF	34	25	T8½	Med.	C-8	5 3/8	1000	Inside Frosted-Train
25T8½/IF	60	25	T8½	Med.	C-8	5 3/8	1000	Inside Frosted-Train
30S11/100	32	30	S11	D.C.Bay.	C-7A	2 3/8	500	Clear-Train Marker (5)
30S11DC	64	30	S22	D.C.Bay.	CC9	2 3/8	500	Clear-Train Marker (5)
30S11DC	75	30	S11	D.C.Bay.	CC9	2 3/8	500	Clear-Train Marker Control Stand (5)
36A/RYH	120	.342 Amps	A19	Med.	C-5	3 7/8	1000	Street Railway Headlight (4)
40A	60	40	A19	Med.	C-9	4¼	1000	Inside Frosted-Train (2)
40T8½/IF	30	40	T8½	Med.	C-8	5 3/8	1000	Inside Frosted-Train
50A/RS	32	50	A19	Med.	C-9	3 7/8	1000	Inside Frosted-Rough Service, Train
50A19/RS	75	50	A19	Med.	C-9	3 7/8	1000	Inside Frosted-Rough Service Train
50A21	30	50	A21	Med.	C-9	4 7/8	1000	Inside Frosted-Train (2)
50A21	34	50	A21	Med.	C-9	4 7/8	1000	Inside Frosted-Train
56A21	120	.519 Amps	A21	Med.	C-9	2 15/16	1000	Inside Frosted-Street Railway
60PAR	38	60	PAR46	Screw Terminal	CC-2V	3¾	800	PAR-Locomotive Headlight
60PAR/2/R	38	60	PAR46	Screw Terminal	CC-2V	3¾	800	PAR-Red Lens-Transit and Train Warning (6)
75PAR36/RS	75	75	PAR36	Screw Terminal	CC-6*	2¾	500	PAR-Train Warning-Rough Service
75PAR/FL	30	75	PAR38	Med.Skt.	C-6	5 5/16	1000	PAR-Train-Floodlight
75PAR46	48	75	PAR46	Screw Terminal	CC-2V	3¾	800	PAR-Locomotive Headlight
88PAR/FL	75	88	PAR36	Screw Terminal	CC-6	2¾	1500	Train Warning

§ Lamps are shipped only in multiples of full-standard packages of 120 pieces.

TRAIN & TRANSIT LAMPS (continued) 1988

Lamp Ordering Code	Volts	Watts or Amps	Bulb	Base	Fil. Shape	MOL	Avg. Rated Life (Hrs.)**	Description
100A21/3	32	100	A21	Brass Med.	C-5	$3^{13}/_{16}$	500	Clear-Locomotive Headlight (3)
100A	34	100	A23	Brass Med.	C-9	$5^{15}/_{16}$	1000	Inside Frosted-Train (2)
100A/RS	30	100	A21	Med.	C-9	5¼	1000	Inside Frosted-Rough Service-Train
100PAR46	60	100	PAR46	Screw Terminal	CC-2V	3¾	800	PAR-Locomotive Headlight (6)
100A23	12	100	A23	Med.	C-6	$5^{15}/_{16}$	1000	IF—Train
150P25/15	120	150	P25	Brass Med.	C-5	4¾	500	Clear-Train Headlight (5)
150PAR46	120-130	150	PAR46	Screw Terminal	C-13	3¾	1000	PAR-Locomotive Headlight (6)
150PAR46/1	32	150	PAR46	Screw Terminal	CC-8	3¾	800	PAR-Locomotive and Transit Car Headlight
200	32	200	PS-30	Med.	C-9	$8^{1}/_{16}$	1000	Clear-Train (2)
200PAR	12	200	PAR56	Screw Terminal	CC-8	4½	500	PAR-Locomotive Headlight (1)
200PAR	30	200	PAR56	Screw Terminal	CC-8	4½	500	PAR-Locomotive Headlight (1)
250P25	32	250	P25	Brass Med.	C-5A	4¾	500	Clear-Locomotive Headlight (3)
250P25	120	250	P25	Brass Med.	C-5	4¾	500	Clear-Locomotive Headlight (3)
250P25/22	32	250	P25	Med. Pref.	C-5A	5	500	Clear-Locomotive Headlight (3)
300P25P	60	300	P25	Med. Pref.	C-5A	5	500	Clear-Locomotive Headlight (5)
4A/S6	10	.4 Amps	S6	S.C.Bay.	CC-2V	$1^{13}/_{16}$	—	Clear-Resistance Ballast-For operation in series with choke ballast and 1-14WF lamp on 60v D.C. circuits

(1) Burning position: horizontal
(2) Will operate in any position, but lumen maintenance is best when burned vertically, base up.
(3) Unsatisfactory lamp operation is likely to occur in burning positions between horizontal and base up, particularly between 45° from base up and base up.
(4) Nominal watts. Actual watts are determined by multiplying the volts by the design amperes.
(5) Burning position: base down to horizontal.
(6) Burning position: plane through lamp axis and base terminals horizontal.
** Average rated life is the number of hours to burn out 50% of the lamps in a test-sample group when tested under laboratory-controlled conditions.
* Shock mount filament.

FLUORESCENT LAMPS§

Lamp Ordering Code	Length Inches	Watts	BAse	Color	Special Characteristics
F28T8/N/1	28	15 (220 MA)	Single Pin Fluted	Natural	Transit Car Lighting/D.C. Operation
F72T8/N/1	72	45 (225 MA)	Single Pin Fluted	Natural	Transit Car Lighting/D.C. Operation
F40CW	48	40	Medium Bipin	Cool White	Transit & Train
F40WW	48	40	Medium Bipin	Warm White	Transit & Train
F30T12/CW/RS	36	30	Medium Bipin	Cool White	Transit & Train
F30T12/WW/RS	36	30	Medium Bipin	Warm White	Transit & Train

§ Fluorescent lamps are shipped in multiples of full-standard packages.

E. LENS PROTECTORS

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1988

LENS PROTECTORS

GSI CATALOG NUMBER	DIA. (In.)		COLOR	DESCRIPTION	WGT. (Lbs)	STD. PKG.	MATERIAL
LENS PROTECTORS							
Made to fit and protect GLASS Color Light & Search Light Lenses							
77-1-P	10		Clear	Fits Color Lights except GRS & Safetran Fits ALL Search Lights	20	25	'Lexan
80-2-P	10		Clear	Fits GRS & Safetran Color Lights	20	25	Lexan
6680-C-F-L	8 3/8		Clear	Flat - Plain - 1/4" Thick Protector for 7311-S	18	25	Lexan
73-4-S-L	4 1/2		Clear	Flat - Plain - 1/8" Thick Protector Disk	20	25	Lexan
73-8-S-L	8 3/8		Clear	Flat - Plain - 1/8" Thick Protector Disk	25	25	Lexan

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CROSS REFERENCE Part numbers assigned by signal manufacturers to General Signals lenses								
GRS Glass	**WABCO US&S Co.**	**RACO Safetran**	**Adlake**				**Customer Number**	**GSI CATALOG NUMBER**
LENS PROTECTORS								
Made to fit and protect GLASS Color Light & Search Light Lenses								
		31250						77-1-P
		31245-X 31252-X						80-2-P
P76-264	437954 UN249111							6680-C-F-L
	N184403							73-4-S-L
								73-8-S-L

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F. SPECIALTY LENSES, MISCELLANEOUS PRODUCTS, and CUSTOM SERVICES

GENERAL SIGNALS, INC.

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SPECIALTY LENSES

GSI CATALOG NUMBER	DIA. (In.)	FOCUS (In.)	COLOR	DESCRIPTION	WGT. (Lbs)	STD. PKG.	MATERIAL
60-1-C	5 3/8	3 1/2	Clear	30° Spread Light w/10° Deflection - Used on rear of some locomotives	8	25	Plexiglas
64-3-R	5 3/8	3 1/2	Red	Optical - Used on side of "Switchbox"	8	25	Plexiglas
64-3-G	5 3/8	3 1/2	Green	Optical - Used on side of "Switchbox"	8	25	Plexiglas
73-4-S-L	4 1/2	—	Clear	Flat - Protector Disk - Various uses	20	25	Lexan
360-F-C	3 3/16	—	Clear	360° Lens - open on both ends - Maintainers Call Light	12	24	Lexan
H	8 3/8	—	Clear	Letter "H" with black background	—	—	Plexiglas
M	5 3/8	—	Clear	Letter "M" with black background	—	—	Plexiglas
R	6 1/4	—	Green	Letter "R" with black background	—	—	Plexiglas
S	12	—	Clear	Letter "S" with black background	—	—	Plexiglas
S-5 3/8	5 3/8	—	Cler	Letter "S" with black background	—	—	Plexiglas
S-8 3/8	8 3/8	—	Lunar White	Letter "S" with balck background	—	—	Plexiglas
2138-03-R	4 1/2	—	Red	Stimpsonite Reflector	—	—	Plexiglas
64-3-C-GDRIM	5		Clear	Optical - Ground Down	8	25	Plexiglas
64-3-R-GDRIM	5		Red	Optical - Ground Down	8	25	Plexiglas
64-3-Y-GDRIM	5		Yellow	Optical - Ground Down	8	25	Plexiglas
6440-C	8 3/8	—	Clear	Convex 30° Spreadlight - 15° Deflection - Traffic Type Lights, Toll Booths, Swimming Pools	18	25	Plexiglas
6440-Y	8 3/8	—	Yellow	Convex 30° Spreadlight - 15° Deflection - Traffic Type Lights, Toll Booths, Swimming Pools	18	25	Plexiglas
6440-G	8 3/8	—	Green	Convex 30° Spreadlight - 15° Deflection - Traffic Type Lights, Tool Booths, Swimming Pools	18	25	Plexiglas
R *	6 1/4	—	Green	Painted "R"	—	—	Plexiglas
ARROW *	6 1/4	—	Yellow	Painted Arrow	—	—	Plexiglas
7111-CP *	5 3/8	—	Clear	Painted "WAIT"	—	—	Plexiglas

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CROSS REFERENCE
Part numbers assigned by signal manufacturers to General Signals lenses

Kopp Glass	GRS Plastic	WABCO US&S Co.	RACO Safetran	Adlake	WRRS Western Cullen-Hayes		Customer Number	GSI CATALOG NUMBER
				232-17-31				60-1-C
RL-4260			042331-R	232-17-42				64-3-R
			042331-G	232-17-34				64-3-G
		N184403						73-4-S-L
		UJ53736	075918-2					360-F-C
								H
								M
								R
								S
								S-5 3/8
								S-8 3/8
								2138-03-R
RL-4255	P73-764 P73-726							64-3-C-GDRIM
RL4255	P73-764 P73-726	79225						64-3-R-GDRIM
RL-4255	P73-764 P73-726	79224						64-3-Y-GDRIM
								6440-C
		UJ530120	040405-7		CL17			6440-Y
		UJ530121						6440-G
		UJ535006-0025						R *
								ARROW *
								7111-CP *

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SPECIALTY LENSES (continued)

GSI CATALOG NUMBER	DIA. (In.)		COLOR	DESCRIPTION	WGT. (Lbs)	STD. PKG.	MATERIAL
7112-CP *	8 3/8	—	Clear	Painted "WAIT"	—	—	Plexiglas
6680-C-BT	8 3/8	—	Clear	Edge Reflection Protection w/Black Trim - Flat - 10° Deflecting w/Plain Center	18	25	Plexiglas
8-FR-FLAT	8 3/8	—	Clear **	Flat Disk for Custom Painting & Uses. Made to Order	—	—	Plexiglas
FLAT DISK "S"	8 3/8	—	Clear	Flat Disk w/"S" Painted On	—	—	Plexiglas
XR-609	1 3/8		Green	Lamp Sight Indicator - 1 3/8" Base - 1 1/2" Tall	—	—	Glass
1169-4CL-5G	4	—	Green/Clear	Inner Lens Unit for Color Position Light Dwarf Signal	—	—	Plexiglas
1169-4CL-5R	4	—	Red/Clear	Inner Lens Unit for Color Position Light Dwarf Signal	—	—	Plexiglas
1169-4CL-5Y	4	—	Yellow/Clear	Inner Lens Unit for Color Position Light Dwarf Signal	—	—	Plexiglas
1169-5-G	4	—	Green	Flat - 20° Spread, Frosted	8	25	Plexiglas
1169-5-R	4	—	Red	Flat - 20° Spread, Frosted	8	25	Plexiglas
1169-5-Y	4	—	Yellow	Flat - 20° Spread, Frosted	8	25	Plexiglas
68-101-P	8 3/8	—	Purple	Convex - 20° Spread w/10° Deflection on Hot Spot Bullseye	18	25	Plexiglas

RUBBER GASKETS FOR LENSES AND ROUNDELS

G-4000	4		—	Fits 4" Roundel	—	—	Rubber
Gp5375	5 3/8		—	Fits 5 3/8" Roundel	—	—	Rubber
G-5500	5 1/2		—	Fits 5 1/2" Roundel	—	—	Rubber
G-6375	6 3/8		—	Fits 6 3/8" Roundel	—	—	Rubber
G-8375	8 3/8		—	Fits 8 3/8" Roundel	—	—	Rubber

* These lenses are available in other sizes and colors - please inquire.

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CROSS REFERENCE Part numbers assigned by signal manufacturers to General Signals lenses								
GRS Plastic	WABCO US&S Co.	Adams & Westlake					Customer Number	GSI CATALOG NUMBER
								7112-CP *
	N256211 UJ530105							6680-C-BT
								8-FR-FLAT
								FLAT DISK "S"
	J708846-0002	1339						XR-609
								1169-4CL-5G
								1169-4CL-5R
								1169-4CL-5Y
								1169-5-G
								1169-5-R
								1169-5-Y
								68-101-P

RUBBER GASKETS FOR LENSES AND ROUNDELS								
P73-995								G-4000
P73-996								G-5375
P73-997								G-5500
P73-998								G6375
P73-999	UJ47444							G-8375

*These lenses are available in other sizes and colors - please inquire.

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CUSTOM SERVICES— (see page F-1 also)

- **NON-GLARE TREATMENT:** A special process is available to reduce glare on any lens.

- **CUSTOM PAINTING AND MARKING:** We can paint and/or mark any of our lenses to your specifications with arrows, letters, slashes, words, symbols, etc.

- **GROUND DOWN LENSES:** Many such lenses are listed throughout this catalog. Call if you have a special need or you don't see it listed.

- **BEVELED EDGES:** Lenses are available with beveled edges to any specified angle.

- **FAX NUMBER: (812) 425-9904 -** we now offer high speed transmission of letters, orders, drawings, etc.

- **SHEET MATERIALS:** A full line of film and sheet materials (Plexiglas and Lexan) is available through General Signals, Inc. Custom fabricating into specific shapes and sizes is also available. Please call for information.

- Call us for information about custom lenses - sizes, colors, painted words, and non-glare lenses. We can also locate and identify the replacement lens you need.

- We have provided extensive *Cross Reference* for part numbers to assist in selecting the proper part. We have also provided a space for your company's part numbers within this table. It would be of great help, and allow us to process your orders more efficently if you could send us your numbers for our reference.

G. NEW PRODUCTS and INFORMATION

GENERAL SIGNALS, INC.

FRA Approved

End Of Train Marker Light

Model W-9000

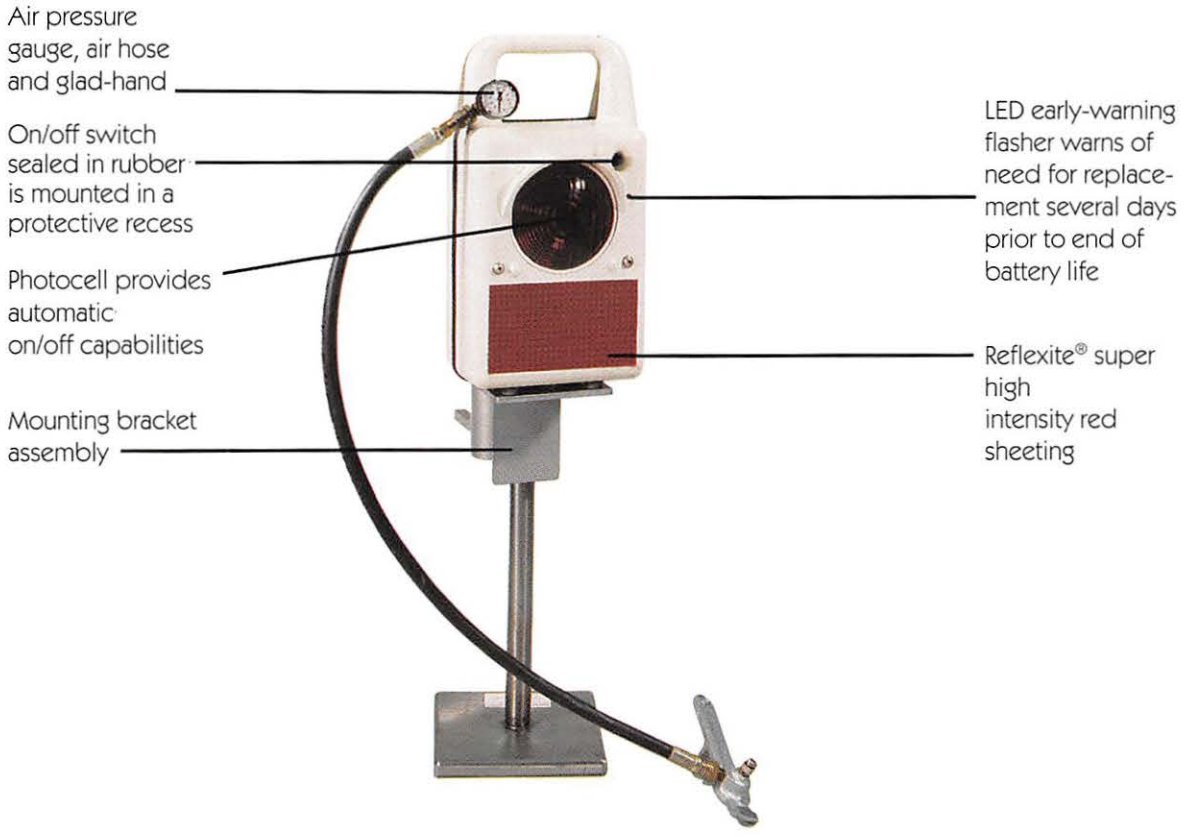
Efficiency and durability in new high intensity LED technology bring long life and reliability to an old standard.

Notable Features:

Battery: Provides 1000 **continuous** operating hours (no need to recharge)

Light Output: Full values of standard strobe in maintenance-free source

Weight: High-impact plastic Xenoy case keeps **total** weight at only 21 pounds.


Air pressure gauge, air hose and glad-hand
On/off switch sealed in rubber is mounted in a protective recess
Photocell provides automatic on/off capabilities
Mounting bracket assembly
LED early-warning flasher warns of need for replacement several days prior to end of battery life
Reflexite® super high intensity red sheeting

GENERAL SIGNALS • 701 N. WEINBACH, SUITE 610 • EVANSVILLE, IN 47711 • 812/473-8740 • FAX# 812/473-8748

End Of Train Marker Light

Model W-9000

Performance

The lamps have a service life of several years in an operational environment which subjects them to considerable vibrational forces and the effects of a wide variety of climatic conditions.

The light will maintain an almost constant effective brightness throughout the working battery life. It will surpass FRA regulations on light output from start to finish throughout the life of the battery.

The solid state electronic circuitry has an operating temperature range from -20c to +70c.

Battery

Maintenance is minimal with battery replacement after 1000 continuous hours of operation. The battery is a 7.5 volt, 30 amp hour disposable Carbon Zine battery. The current-drain of LED's is minimal, therefore cold weather has little effect on battery efficiency.

Optics

The red Lexan lens has a diameter of 5" and a focal length of 3 1/2 inches. The LED light source effective intensity is a maximum of 250 candelas and a minimum of 100 candelas.

The optic quality exceeds all requirements of final report: "Guidelines For Testing of FRA Rear End Marking Device; November 1977".

Mechanical Integrity

The lamp survives cyclic vibration within a frequency range 10 to 400 hertz at peak acceleration of 9.8 milliseconds and frequency range 1 to 10 hertz with half travel amplitude of (25/frequency) mm at a sweep rate of 90 seconds per octave lasting 30 minutes; 50 hertz at a peak acceleration of 30 milliseconds in each of three perpendicular axes for one minute. The lamp will also survive ten drop tests from three mutually perpendicular orientations at a height of 1 meter onto a steel plate float fixed to a concrete block.

Construction

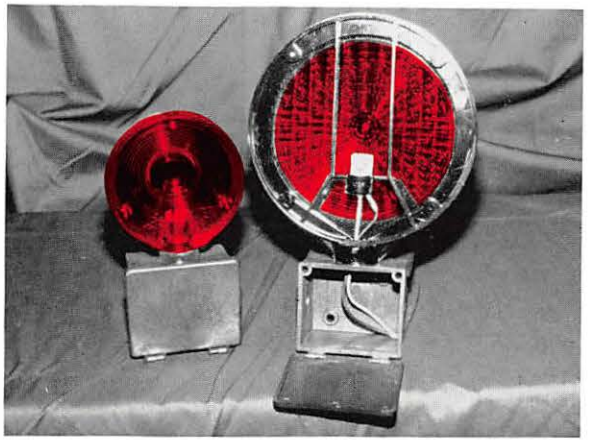
Molded from easy clean Xenoy CL 100 high impact plastic, the two part case has an "h" section weatherproof EPDM rubber gasket and is firmly secured by two M6 Allen headed bolts. The Xenoy CL 100 plastic is UV stabilized. It has high chemical resistance and excellent mechanical performance over a wide temperature range.
The lens is held in position by four fixing clips and a weatherproof silicone seal. The total weight of 21 pounds includes the light unit battery, mounting bracket, air pressure gauge, air hose and glad hand.

GENERAL SIGNALS • 701 N. WEINBACH, SUITE 610 • EVANSVILLE, IN 47711 • 812/473-8740 • FAX# 812/473-8748

GENERAL SIGNALS, INC.

GATE LIGHTS
and
JUNCTION BOX

4″ & 7″ Lights made of impact resistant Lexan



Junction box made of durable Polypropylene plastic

Junction box features hinge lid with snap closure.

Lights available fully assembled with signal lamp installed.

70% less weight than aluminum lights

Strong, long-lasting and weather resistant plastic

ORDERING INFORMATION

G.S.I. Part No.	Description
L-4-1013C	4″ Gate light—assembled complete with lamp and junction box
L-7-1013C	7″ Gate light—assembled complete with lamp and junction box
L-4-1013	4″ Gate light with junction box
L-7-1013	7″ Gate light with junction box
L-4106	4″ Gate light only
L-7-1003	7″ Gate light only
1013-1-2	Junction box only
SS-4-3805K-2	4″ Lens kit (2 lenses, 6 screws, 2 gaskets)
SS-4-9016	4″ Lens only
SS-7-364	7″ Lens only

GENERAL SIGNALS, INC. 19 NW 4th St., Suite 420, Evansville, IN 47708

(812) 422-6070, FAX (812) 425-9904

GENERAL SIGNALS, INC.

RAILROAD CROSSBUCK

WORTH ITS WEIGHT IN GOLD

BUT NOT WORTH STEALING

NO REDEEMABLE SCRAP VALUE

NON METALLIC

The rigid design, yet flexible composition allows for flexing under stress thereby resisting damage due to impact and vandalism.

LIGHT WEIGHT

Up to 33% lighter than its competition; provides for easy handling, storage and reduction in shipping costs.

WEATHERPROOF

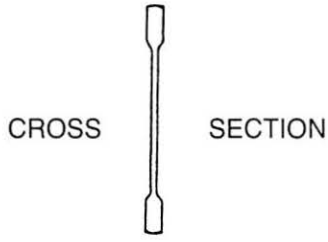
The signs are manufactured from a composition of glass fiber, marble and thermosetting polymers which will not rust, rot, or become brittle from cold or ultra-violet exposure.

EASY INSTALLATION

Signs designed to fit all standard fixtures, and they have no sharp edges to cut installer.

UNIQUE DESIGN

The new cross section design allows for reflectorized tape and printing to be applied to both sides. High intensity and engineering grade reflective tape is available.



SPECIFICATION:

The **NEW FIBERGLASS CROSSBUCK SIGN** comprises a planar web section whose material composition and fiber arrangement provide tensile strength exceeding 25,000 psi while providing flexibility to enable the sign to withstand impacts and other destructive influences.

GENERAL SIGNALS, INC. 701 N. Weinbach Ave., Suite 610, Evansville, IN 47711
(812) 473-8740, FAX (812) 473-8748

GENERAL SIGNALS, INC.

Electronic Crossing Bell

Model EB-3-360-5

Notable Features:

The General Signals' electronic crossing bell is a totally electronic device which has no moving parts that may result in mechanical failure due to weather, pests, or fatigue.

The tone of a mechanical bell has been permanently recorded onto a micro-chip and is then played back through an outdoor speaker. Therefore, the warning sound duplicates that of a traditional bell. No special wiring is required; the unit is connected to the same wire leads that would be used for a mechanical bell.

The cylindrical plastic housing measures 6" dia. and 18" high and is durable, weatherable and lightweight (less than 10 pounds). This allows the unit to be easily installed by one man and it is virtually maintenance free.

The electronic circuit draws less than 0.15 amps, which is approximately 10% of the current draw of a typical mechanical bell.

The bell meets all applicable AAR recommendations, and pertinent specifications are as follows:

- 250 strokes per minute
- Has sound reading range of 85 to 95 decibels in a 180° plane
- Operating voltage of 10± 25% volts D. C.
- Mounts directly to a 4 or 5 inch mast

GENERAL SIGNALS • 701 N. WEINBACH, SUITE 610 • EVANSVILLE, IN 47711 • 812/473-8740 • FAX# 812/473-8748

GENERAL SIGNALS, INC.

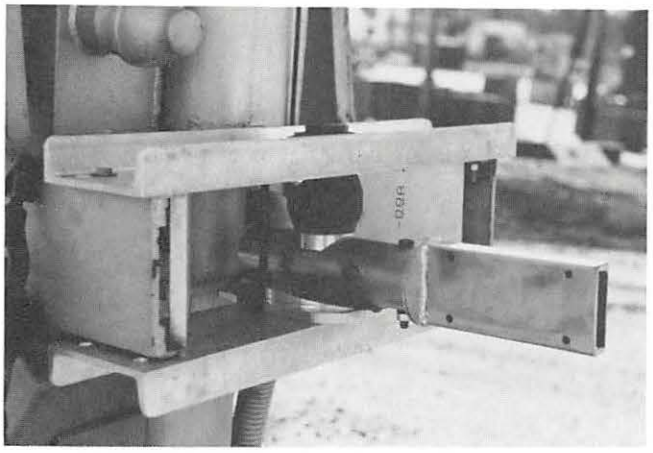
THE GATE KEEPER

Patent No. 4,897,960

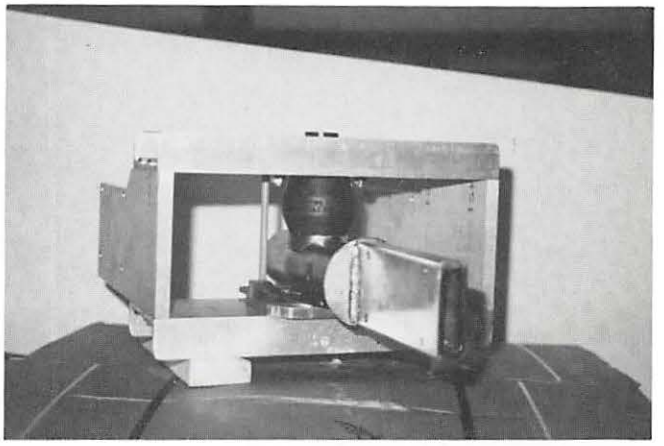
It's your answer to the problem of "Gate Crashers"

And Now

It is IMPROVED



MAST MOUNTED GATE MECHANISM
MODEL # SK-1000



PEDESTAL MOUNTED GATE MECHANISM
MODEL # SK-1001

What is it? A patented mechanical apparatus which can be attached to any standard gate mechanism—Mast mounted or pedestal mounted.

What does it do? Allows for vehicles attempting to pass through a lowered gate arm to do so without damage to the gate itself.

How does it work? Any standard fiberglass/aluminum break-away gate arm used in conjunction with our Gate Keeper will, upon contact with a vehicle, swing in a concentric motion and allow the vehicle to pass, without any damage to the gate. The gate arm will then return to its original position and lock into place.

What improvements have been made? A roller bearing has been added to the design, which allows it to operate with a gate arm of up to 32 feet in length. There is a shear pin option for high wind areas.

What can the GATE KEEPER do for you?

- Reduce replacement costs of gate arms
- Reduce labor costs of maintaining gate arms
- Reduce the liability inherent when a gate arm is down

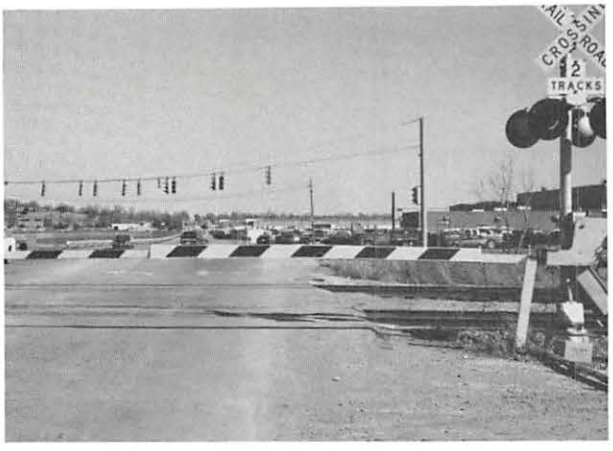
THE GATE KEEPER.....KEEPS GATE CRASHERS FROM COSTING YOU MONEY

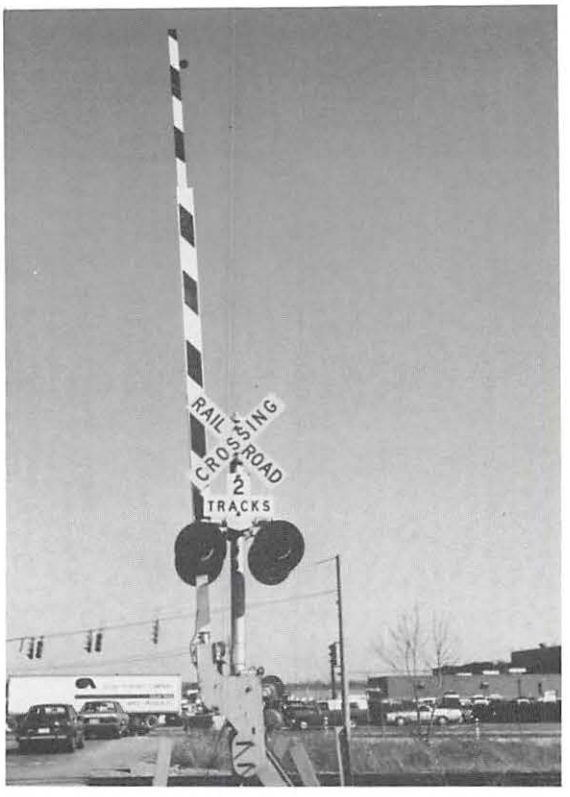
GENERAL SIGNALS, INC. 701 N. WEINBACH, SUITE 610, Evansville, IN 47711
(812) 473-8740, FAX (812) 473-8748

THE SURVIVOR

Plastic Composite

GATE ARM





OPTIONS

- 12 to 26 foot lengths
- 2 sections available: 16′ base and 12′ mid-section
- Engineering grade or Hi-intensity grade reflective sheeting
- Gate lights available with internal wiring

CONSTRUCTION

The Survivor Gate Arm 16′ base section is manufactured from an 8′ aluminum sleeve in conjunction with a 14′ extruded Rovel plastic section that has a triangle cross section. Rovel weatherable polymer is a high impact engineering thermoplastic that combines excellent weatherability, high heat distortion, and outstanding impact strength. If needed, a second section, up to 12′ in length, made of pultruded fiberglass is available.

NOTABLE FEATURES

7″ face — For greater visability

Lighter weight — 16′ base weighs 16% less than fiberglass

Flexible — Will withstand a greater impact than fiberglass

The SURVIVOR plastic composite gate arm is quality-constructed. And although the GATE KEEPER will work with any fiberglass or aluminum/fiberglass gate, G.S.I. highly recommends using the GATE KEEPER in conjunction with the SURVIVOR for valuable longevity in gate equipment.

GENERAL SIGNALS, INC. 701 N. WEINBACH, SUITE 610, Evansville, IN 47711
(812) 473-8740, FAX (812) 473-8748

H. PRICE SHEETS, TERMS and RESTRICTIONS

GENERAL SIGNALS, INC. 1990

TERMS & RESTRICTIONS

- Prices are — F.O.B. Evansville, Indiana — Package charge included — net 30 days.
- Prices are subject to change without notice.
- All agreements are made and all orders accepted contingent upon strikes, fires, unusual market conditions, and other causes beyond our control.
- Prices do not include U.S. Government or other taxes which may be applicable.
- Minimum Billing — $50.00
- Prices shown for Lexan and Plexiglas lenses are per piece for full standard packages. A 10% surcharge applies to quantities other than standard packages.
- Prices shown for Glass lenses are per piece for quantities of 5 pieces or more. A 10% surcharge applies to orders of quantities less than 5 pieces.
- Lamps are shipped only in multiples of full-standard packages of 120 pieces.
- Special price considerations are available on committed, year long blanket orders, of sufficient quantity — please inquire.

General Signals, Inc.
701 N. Weinbach, Suite 610
Evansville, IN 47711
(812) 473-8740 FAX (812) 473-8748

1990
RAILROAD PRICE INFORMATION

SECTION A

PAGE A-1

	GSI Catalog Number	PRICE*
1.	6440-RL	$ 7.89
	68-101-RL	7.89
	68-101-P	Inquire
	7230-R-L	7.89
	7330-15-R-L	7.99
	7812-3015-R-L	12.85
	7812-2010-R-L	13.33
1a.	7370-BE-R-L	7.89
	70-8-BE	9.33
	7812-70-R-L	12.85
2.	7190-32-BERL	7.89
	7812-2032-R-L	12.85

PAGE A-3

3.	60-1-R	$ 7.20
	7180-30-R-L	10.01
4.	SS-4-3805K-2	3.80
	SS-4-9016	0.98
	SS-7-364	2.60
	SS-7-394	13.04
	360-F-R	7.08
	360-FT-R	7.44
	SS-4-3805Y	12.69
	L-4-1013	17.65
	L-7-1013	21.50

SECTION B

PAGE B-1

	GSI Catalog Number	PRICE*
1.	R-8-238-NH	$27.50
	R-8-178-NH	Inquire
	R115-238-NH	49.50
	R-12-4-NH	42.50
	R-12-238-NH	Inquire
2.	RM12-2-1H	60.00
	RM12-2-25H	Inquire
3.	R66903	14.47
	R66903-GD	17.47
	R66903-H	16.47
	RP12-4-NH	Inquire
	RP12-238-1H	16.75
	RP12-238-25H	Inquire
	RP12-238-NH	16.75

* Prices shown are per piece when ordered in standard packages.

1990
RAILROAD PRICE INFORMATION

SECTION C

PAGE C-1

	GSI Catalog Number	PRICE*
1a.	2-6450-C-L	$ 9.69
	2-6450-30C-L	9.69
	2-6450-40C-L	9.69
	2-6450-40CLM	10.69
	6450-C	6.97
	6450-40-C	6.97
	6450-40-C-M	7.97
	6450-C-GL	16.18
	6450-40-C-GL	16.18
	6450-R	9.69
	68-202-40	7.27
	68-202-C	7.27
1b.	6690-R	6.77
	6690-Y	6.77
	6690-G	6.77
	6690-LW	6.77
	6690-GG	6.77
	6690-C	6.77

PAGE C-3

	6690-B	$ 7.79
	K1776-R	9.41
	K1776-Y	9.41
	K1776-G	9.41
	K1776-LW	9.41
	K1776-P	9.41
1c.	77-1-P	13.39
	80-2-P	13.39

SECTION C (cont.)

PAGE C-3

	GSI Catalog Number	PRICE*
2a.	6560-C-L	$ 9.08
	6570-C-L	9.08
	7180-30-C-L	9.08
	7180-30-R	10.01
	6560-C	6.97
	6560-C-F	7.20
	6560-C-GL	16.18
	6560-R	10.48

PAGE C-5

	6560-LW	Inquire
	6560-Y	$10.48
	6570-C	6.97
2b.	6690-R	6.77
	6690-Y	6.77
	6690-G	6.77
	6690-LW	6.77
	6690-C	6.77
	K1776-R	9.41
	K1776-Y	9.41
	K1776-G	9.41
	K1776-LW	9.41
	K1776-P	9.41
3.	1169-4-C-L	6.76
	1169-5-C-L	6.76
	569-2-C-L	6.76

* Prices shown are per piece when ordered in standard packages.

1990
RAILROAD PRICE INFORMATION

SECTION C (cont.)

PAGE C-7

	GSI Catalog Number	PRICE*
4a.	770-2-R	$ 7.40
	770-2-Y	7.40
	770-2-G	7.40
	770-2-GG	7.40
	770-2-LW	7.40
	770-2-C	7.40
	770-2-HP-L	8.42
	770-2-PY	8.42
4b.	670-1-C	7.82
	670-1C-F	7.82
5a.	64-3-C-GD	8.37
5b.	7510-R	7.74
	7510-Y	7.74
	7510-G	7.74

PAGE C-9

	7510-LW	$ 7.74
	7510-**-GD	9.64
6.	7111-R	8.73
	7111-Y	8.73
	7111-G	8.73
	7111-LW	8.73
	7111-C	8.73
	7111-CP	Inquire
	7112-R	10.48
	7112-Y	10.48

SECTION C (cont.)

PAGE C-9 (cont.)

	GSI Catalog Number	PRICE*
6.	7112-G	$10.48
	7112-GG	10.48
	7112-LW	10.48
	7112-C	10.48
	7112-CP	Inquire
	7111-**-GD	11.73
	7112-**-GD6	13.48

PAGE C-11

7a.	6680-C-L	$11.63
	6680-C-F-L	11.63
	6680-C-BT	28.92
	6795-C	7.92
	7150-C-L	9.69
	7150-40-C-L	9.69
	7150-C-GL	16.40
	7150-40-C-GL	16.40
	7311-S	60.00
	7370-BE-C-L	12.37
	K4290-20C-GL	41.00
7b.	6795-R	7.44
7c.	77555-C	32.17
	77565-C	32.17

* Prices shown are per piece price when ordered in standard packages.

1990
RAILROAD PRICE INFORMATION

SECTION C (cont.)

PAGE C-13

	GSI Catalog Number	PRICE*
7d.	1-088-GL-R	$35.50
	1-088-GL-Y	35.50
	1-088-GL-LW	35.50
	1-088-GL-G	35.50
	1K-4501-G	39.95
	1K-4501-Y	39.95
	1K-4501-R	39.95
8a.	1269-6-HP-L	11.42
	1269-6-C-L	11.42
	1269-6-R	11.42
	1269-6-Y	11.42
	1269-6-G	11.42
	770-2-HP-L	9.09
8b.	6560-C-F	7.20
	6690-C	6.77
	870-3-C	7.40
	870-3-R	7.40
	870-3-Y	7.40
	870-3-G	7.40

PAGE C-15

	870-3-LW	$ 7.40
	670-1-C	7.82
	670-1-C-F	7.82
	670-1-R	9.80

SECTION C (cont.)

PAGE C-15 (cont.)

	GSI Catalog Number	PRICE*
9.	60-1-C	$ 7.40
	60-1-R	7.40
	60-1-Y	7.40
	60-1-P	Inquire
	60-1-G	7.40
	60-1-B	Inquire
	60-1-LW	7.40
	64-3-C	5.20
	64-3-R	5.20
	64-3-Y	5.20
	64-3-G	5.20
	64-3-P	Inquire
	64-3-P-GL	Inquire
	64-3-B*	Inquire

PAGE C-17

64-3-LW		$ 5.20
64-3-GG		5.20
60-1-**-GD		10.66
64-3-**-GD	Red & Green	8.46
	Others	6.40
26901-C		6.40
26901-R		6.40
26901-Y		6.40

* Prices shown are per piece price when ordered in standard packages.

1990
RAILROAD PRICE INFORMATION

SECTION C (cont.)

PAGE C-17

	GSI Catalog Number	PRICE*
9.	26901-G	$ 6.40
	26901-LW	6.40
	26901-GG	6.40
	26901-B	Inquire
	26901-B-GL	Inquire
	26901-**-GD	8.54
	26901-**-GDGD	8.54
	26901-GD4	8.54
	K4227-C-GL	10.87
	K-4236-C-GL	10.09

SECTION D

PAGE D-1 thru 3

"Inquire", prices subject to quantities.

SECTION E

PAGE E-1

77-1-P	$13.39
80-2-P	13.39
6680-C-F-L	11.63
73-4-S-L	11.63
73-8-S-L	11.63

SECTION F

PAGE F-1

GSI Catalog Number	PRICE*
60-1-C	$ 7.40
64-3-R	5.20
64-3-G	5.20
73-4-S-L	11.63
360-F-C	7.08
H	Inquire
M	Inquire
R	Inquire
S	Inquire
S-5 3/8	Inquire
S-8 3/8	Inquire
2138-03-R	Inquire
64-3-C-GDRIM	8.75
64-3-R-GDRIM	8.75
64-3-Y-GDRIM	8.75
6440C	10.48
6440-Y	10.48
6440-G	10.48
R	Inquire
ARROW	Inquire
7111-CP	Inquire

* Prices shown are per piece when ordered in standard packages.

1990
RAILROAD PRICE INFORMATION

SECTION F (cont.)

PAGE F-3

GSI Catalog Number	PRICE*
7112-CP	Inquire
6680-C-BT	$28.92
8-FR-FLAT	Inquire
FLAT DISK "S"	Inquire
XR-609	15.69
1169-4CL-5G	15.66
1169-4CL-5R	15.66
1169-4CL-5Y	15.66
1169-5-G	7.53
1169-5-R	7.53
1169-5-Y	7.53
68-101-P	Inquire
G-4000	2.99
G-5375	2.99
G-5500	2.99
G-6375	2.99
G-8375	2.99

SECTION I

PAGE I-1

GSI Catalog Number	PRICE*
8-TLO-R-L	$ 8.00
8-TLO-A-L	8.00
8-TLO-G-L	8.00
8-TLO-C-L	8.00
12-TLO-R-L	14.00
12-TLO-A-L	14.00
12-TLO-G-L	14.00
12-TLO-C-L	14.00
8A-TLO-L	Inquire
12A-TLO-L	19.00
8-TLO-R-G	10.50
8-TLO-A-G	10.50
8-TLO-G-G	10.50
8-TLO-C-G	Inquire
12-TLO-R-G	19.50
12-TLO-A-G	19.50
12-TLO-G-G	19.50
12-TLO-C-G	Inquire
8A-TLO-G	Inquire
12A-TLO-G	24.50

* Prices shown are per piece when ordered in standard packages.

I. HIGHWAY
TRAFFIC SIGNAL LENSES

GENERAL SIGNALS, INC.

19 N.W. 4th St., Suite 420
Evansville, Indiana 47708
(812) 422-6070
FAX (812) 425-9904

1988

HIGHWAY TRAFFIC SIGNAL LENSES

GSI CATALOG NUMBER	DIA. (In.)	DIA. (mm)	COLOR	DESCRIPTION	WGT. (Lbs)	STD. PKG.	MATERIAL
8-TLO-R-L	8 3/8	213	Red	8″ Traffic Signal Lens - Lexan		25	Lexan
8-TLO-A-L	8 3/8	213	Amber	8″ Traffic Signal Lens - Lexan		25	Lexan
8-TLO-G-L	8 3/8	213	Green	8″ Traffic Signal Lens - Lexan		25	Lexan
8-TLO-C-L	8 3/8	213	Clear	8″ Traffic Signal Lens - Lexan		25	Lexan
12-TLO-R-L	12	300	Red	12″ Traffic Signal Lens - Lexan		25	Lexan
12-TLO-A-L	12	300	Amber	12″ Traffic Signal Lens - Lexan		25	Lexan
12-TLO-G-L	12	300	Green	12″ Traffic Signal Lens - Lexan		25	Lexan
12-TLO-C-L	12	300	Clear	12″ Traffic Signal Lens - Lexan		25	Lexan
8A-TLO-L *	8 3/8	213	R,A, or G *	Arrow* 8″ Lexan		25	Lexan
12A-TLO-L *	12	300	R,A, or G *	Arrow* 12″ Lexan		25	Lexan
8-TLO-R-G	8 3/8	213	Red	8″ Glass Traffic Signal Lens			Glass
8-TLO-A-G	8 3/8	213	Amber	8″ Glass Traffic Signal Lens			Glass
8-TLO-G-G	8 3/8	213	Green	8″ Glass Traffic Signal Lens			Glass
8-TLO-C-G	8 3/8	213	Clear	8″ Glass Traffic Signal Lens			Glass
12-TLO-R-G	12	300	Red	12″ Glass Traffic Signal Lens			Glass
12-TLO-A-G	12	300	Amber	12″ Glass Traffic Signal Lens			Glass
12-TLO-G-G	12	300	Green	12″ Glass Traffic Signal Lens			Glass
12-TLO-C-G	12	300	Clear	12″ Glass Traffic Signal Lens			Glass
8A-TLO-G *	8 3/8	213	R,A, or G *	Arrow* 8″ Glass			Glass
12A-TLO-G *	12	300	R,A, or G *	Arrow* 12″ Glass			Glass

* Specify color and direction of arrow

Call us for information about custom lenses — sizes, colors, painted words, and non-glare lenses
We can also locate and identify the replacement lens you need.